

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG ELECTRIC LOGS FILE **X** WATER SAMPLE LOCATION INAPPROPRIATE SUB REPORT AND

931222 Meridian Oil to Exxon Corp. eff. 8-16-93:

DATE FILED 6-24-91
LAND FEE & PATENTED STATE LEASE NO PUBLIC LEASE NO UT-68232 INDIAN

DRILLING APPROVED 12-4-91 (EXCEPTION LOCATION)

SPUDDED IN
COMPLETED PUT TO PRODUCING

INITIAL PRODUCTION

GRAVITY API

GOR

PRODUCING ZONES

TOTAL DEPTH

WELL ELEVATION

DATE ABANDONED L.A.D. 6-15-94

FIELD WILDCAT

UNIT

COUNTY GRAND

WELL NO MINERAL CANYON FED. #33-4H

API NO. 43-019-31328

LOCATION 1400' FSL FT FROM (N) (S) LINE 1575' FEL FT FROM (E) (W) LINE

NW SE 1/4 - 1/4 SEC

4

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
26S	19E	4	Exxon Corporation MERIDIAN OIL INC.				

MERIDIAN OIL

June 20, 1991

State of Utah
Natural Resources - Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

RE: Application for Permit to Drill Horizontal Well
33-4H Mineral Canyon Federal
Sec. 4-T26S-R19E
Grand County, Utah

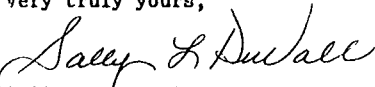
Gentlemen:

Please find enclosed Application for Permit to Drill a horizontal well and related exhibits.

Please be advised that Meridian Oil Inc. requests that all pertinent data for the above-referenced well be granted TIGHT-HOLE status.

If you have any questions or require further information, please feel free to contact me at (303) 930-9393.

Very truly yours,



Sally L. DuVall
Regulatory Compliance Representative

SLD/slt/170

Enc.

RECEIVED

JUN 24 1991

DIVISION OF
OIL GAS & MINING

CONFIDENTIAL

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		0. LEASE DESIGNATION AND SERIAL NO. UT-66025-68232
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
2. NAME OF OPERATOR Meridian Oil Inc.		7. UNIT AGREEMENT NAME N/A
3. ADDRESS OF OPERATOR 5613 DTC Parkway, Englewood, CO 80111		8. FARM OR LEASE NAME Mineral Canyon Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1400' FSL and 1575' FEL		9. WELL NO. 33-4H
At proposed prod. zone See attached Plat		10. FIELD AND POOL, OR WILDCAT Wildcat 001
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approx 30 miles southwest of Crescent Junction, Utah		11. SEC. T. R. M. OR BLE. AND SURVEY OR AREA Sec. 4-T26S-R19E
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINES, FT. (Also to nearest drlg. unit line, if any) 1400'	16. NO. OF ACRES IN LEASE 2070	12. COUNTY OR PARISH Grand
13. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. ± 8000'	19. PROPOSED DEPTH ± 9500' MD C/LCR	13. STATE Utah
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5752.6' GL		17. NO. OF ACRES ASSIGNED TO THIS WELL 320
23. PROPOSED CASING AND CEMENTING PROGRAM		20. ROTARY OR CABLE TOOL Rotary
22. APPROX. DATE WORK WILL START* 7-1-91		

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETBACK DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	54.5#	1700'	550 sx Poz Mix and Cl. "G"
12-1/4"	9-5/8"	40#	4900'	550 sx foam; 700 sx Cl. "H"
8-3/4"	5-1/2"	17#, 20#, 23#	9850'	1100 sx "C"

Oil and Gas Order No. 1 and Exhibits

- A: Survey Plat
Self-Certification of Operator
Lease Description
B: Nine-Point Drilling Plan
C: BOP Diagram
D: Multi-Point Surface Use Plan
E: Access Roads
E-1: Detail of Access Road
E-2: 1-Mile Radius Map
F: Production Lay-Out
G: Cut Fill/Cross Sections
H: Rig Layout

See attached Lease Description

Meridian Oil Inc. is properly bonded
for drilling and plugging wells in Utah:
- State of Utah Bond No. 1536406,
- Nationwide Bond No. UT0414.

JUN 24 1991

DIVISION OF
OIL, GAS & MINING

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED <u>Bobby L. Duwall</u>	TITLE <u>Regulatory Compliance Representative</u>	DATE <u>5-16-91</u>
(This space for Federal or State office use)		
PERMIT NO. <u>13-019-31308</u>	APPROVAL DATE <u>12-4-91</u>	APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING DATE: <u>12-4-91</u> BY: <u>B. Matthews</u> WELL SPACING: <u>615-3-3</u>
APPROVED BY _____	TITLE _____	
CONDITIONS OF APPROVAL, IF ANY:		

*See Instructions On Reverse Side



Pt. A: KOP

MD = 6990'

TVD = 6990

1400' FSL

1575' FEL

Pt. B: Cave
Creek
"B" Entry

MD = 7850'

TVD = 7492'

2000' FSL

1575' FEL

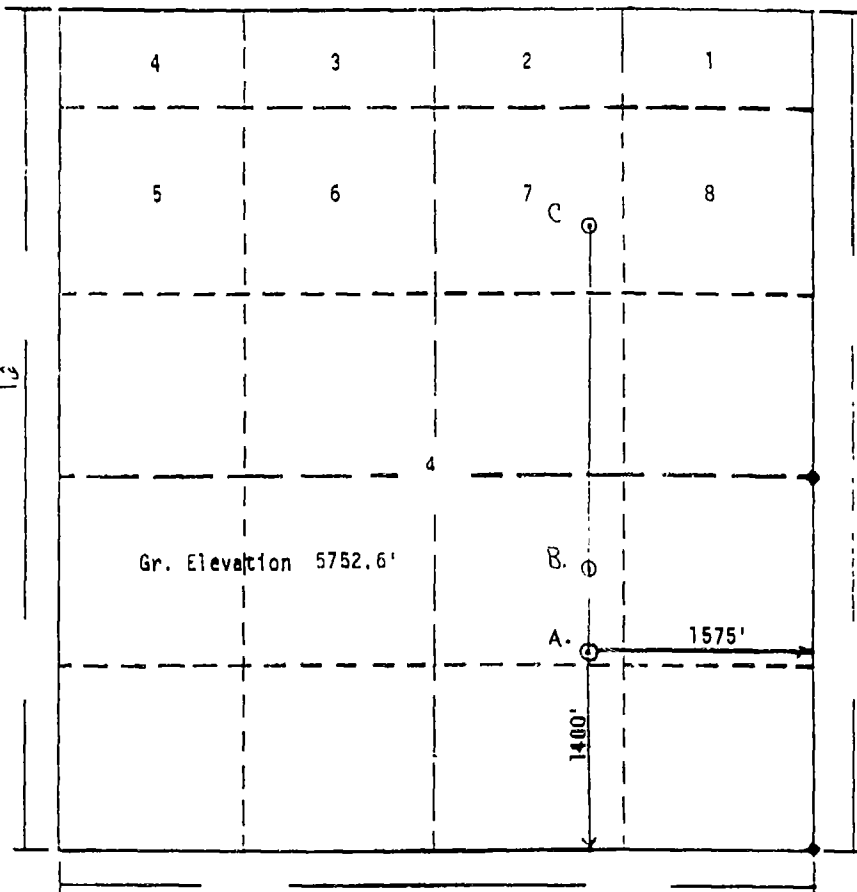
Pt. C: TD

MD = 10,350'

TVD = 7490'

1490' FSL

1575' FEL



500 0 500 1000 1500 2000



SCALE IN FEET

Powers Elevation Co., Inc. of Denver, Colorado has in accordance
with a request from Sally DuVall for Meridian Oil Inc.

determined the location of 33-4 H Mineral Canyon Federal
to be 1400' fsl, 1575' fel

Range 19E of the Salt Lake

Section 4, Township 26S
Meridian,

Grand County, Utah

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of
33-4 H Mineral Canyon Federal



May 16, 1991

Licensed Land Surveyor No. 8894
State of New Mexico

NINE POINT DRILLING PROGRAM

COMPANY: Meridian Oil, Inc
 WELL NAME: 33-4H Mineral Canyon Federal
 LOCATION: NWSE Section 4, T26S-R19E
 Grand County, Utah

All lease/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders and the approved plan of operations. MERIDIAN OIL INC. is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance

In addition, Meridian Oil Inc. is responsible under the terms and conditions of the subject lease for the operations on the lease.

1. Estimated Geological Markers

<u>Formation Tops</u>	<u>Depth</u>	<u>Subsea</u>
Navajo	Surface	
Chinle	520'	(+5260)
Shinarump	835'	(+4945)
Moenkopi	880'	(+4900)
Cutler	1335'	(+4445)
Hermosa	2705'	(+3075)
Top of Salt	4045'	(+1735)
Akah	4954'	(+ 826)
A Marker	5890'	(- 110)
B Marker	6195'	(- 415)
Cycle 19 Marker	6777'	(- 997)
C Marker	7038'	(-1258)
Cycle 21 Marker	7200'	(-1420)
Cane Creek A	7455'	(-1675)
Cane Creek B	7492'	(-1712)
Cane Creek C	7515'	(-1735)
Base of Cane Creek	7538'	(-1758)

2. Estimated Depths of Anticipated Water, Oil, Gas or other Minerals

<u>Formation Tops</u>	<u>Depth</u>	<u>Subsea</u>	<u>Remarks</u>
Navajo	Surface	+5260'	Fresh Water
Cane Creek	7455'	-1675'	Oil, Gas

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected.

3. Pressure Control Equipment

The Moab BLM office will be notified 24 hours prior to the testing of BOPE.

- A. For the drilling of the 17-1/2" hole from surface to 600', a rotating head and blooey line will be rigged up on the 20" conductor. See Exhibit C-1.
- B. For the drilling of the 12-1/4" hole from 700' to 4900' (See Exhibit C-2):
 - 13-5/8" 3M 13-3/8" weld on casinghead
 - 13-5/8" 3M spool w/outlets for kill and manifold lines
 - 13-5/8" 3M double ram BOP with both pipe and blind rams
 - 13-5/8" 3M spherical annular
 - 13-5/8" 3M rotating head
- C. For the drilling of the 8-3/4" hole from 4900' to TD (See Exhibit C-3):
 - 11" 3M 13-5/8" X 5M 9-5/8" casing spool
 - 11" 5M spool w/outlets for kill and manifold lines
 - 11" 5M double ram BOP with both pipe and blind rams
 - 11" 5M spherical annular
 - Flow nipple w/flow and fill line

D. Miscellaneous:

- Accumulator will be 5M psi working pressure. BOP master controls will be at the accumulator; remote controls will be readily available to the driller.
- Choke manifold: The line from the BOP to the choke manifold will be 3", 5M psi working pressure. Manual controls will be present for rams. Kill line and valves will have a minimum diameter of 2".
- A hydraulically operated remote controlled choke, will be installed on the choke manifold (5M psi working pressure).
- BOP's will be tested to maximum working pressure (3000 psi for the 13-5/8", 5000 psi for the 11") with a blanking plug at installation and pressure tested every 14 days thereafter. Pipe rams and blind rams will be functionally operated on trips. Annular preventer to be function tested a minimum of once per week.
- Surface casing will be tested to 1500 psi.
Intermediate casing will be tested to 2500 psi.

4. Casing ProgramSurface Casing

<u>Hole Size</u>	<u>Size</u>	<u>Depth</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Cond</u>
17-1/2"	13-3/8"	600'	54.5#/Ft	K-55	ST&C	NEW

Cement: 300 sx. of 35:65 Pozmix followed by 250 sx. of Class "G" cemented to surface.

Intermediate Casing

<u>Hole Size</u>	<u>Size</u>	<u>Depth</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Cond</u>
12-1/4"	9-5/8"	4900'	40 #/Ft	N-80	LT&C	NEW

Cement: Foam cement job with nitrogen used as an additive to lighten the hydrostatic pressure of the cement.

550 sx. of Foam Cement
700 sx. of Class "H"

Production Casing

<u>Hole Size</u>	<u>Size</u>	<u>Depth</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Cond</u>
8-3/4"	5-1/2"	0 - 120'	20#/Ft	N-80	LT&C	NEW
8-3/4"	5-1/2"	120'-1100'	17#/Ft	N-80	LT&C	NEW
8-3/4"	5-1/2"	1100'-3800'	17#/Ft	K-55	LT&C	NEW
8-3/4"	5-1/2"	3800'-6800'	23#/Ft	P-110	LT&C	NEW
8-3/4"	5-1/2"	6800'-7900'	23#/Ft	P-110	BT&C	NEW
8-3/4"	5-1/2"	7900'-9850'	23#/Ft	N-80	BT&C	NEW

External Casing Packer set @ +/- 7850' MD
HOS Cementer to be placed in the Cane Creek "A" zone.

Cement: Lead slurry will be 300 sx. of Class "G".
Tail slurry will be 800 sx. of Class "G" with
Salt Bond additives.

Cement will be placed from the external casing packer at
7850' to 4500'.

5. Proposed Mud Program

Description:

- 0'- 4900': Air/Air Mist
- 4900'- TD: Invert oil mud. Circulate in steel tanks.
Mud wt. 9.0 - 15.0 ppg, HTHP WL +/- 30, PV 20-25, YP
12-22, Vis 40-55.
- Mud weight will be maintained with barite. An adequate amount of barite will be kept on location in two bulk (50 ton) hoppers to handle any well control problems.

6. Coring, Logging and Testing Program

A. Cores: An oriented core will be attempted in the Cane Creek "B" interval if hole conditions permit.

B. Drill Stem Tests: None planned.

C. Logs

DIL/SFL/SP/GR	4900' - 600'
BHC SONIC/GR/CAL	4900' - 600'

VSP (Vertical Seismic Profile)	6970' - TD
DIL/SFL/SP/GR	6970' - 4900'
BHC SONIC/GR/CAL	6970' - 4900'
CNL/LDT/GR/CAL	6970' - 4900'
MWD GR	6970' - TD

D. Directional Surveys: This well is proposed as a medium radius horizontal well. The well will be drilled vertically to a depth of +/- 6990' (KOP), and drilled in a direction of N 0.0 E (North 0 degrees East or a 360 deg. azimuth) for a total departure of 3100', with 2500' of lateral wellbore. A gyro survey will be ~~run~~ ^{Run} from kickoff point to surface. Surveys will then be taken +/- 30' during the build, and +/- 90' during the lateral section of the well.

E. Samples: Samples will be taken every 30' from surface to KOP (6990'), and every 10' from KOP to TD.

F. Mud Logger. Mud logger will be on location from 4000' to TD.

G. Completion Procedure: The Cane Creek is expected to flow naturally upon initial completion.

7. Anticipated abnormal BHP or BHT

The Cane Creek is expected to have abnormal pressure. Anticipated BHP is +/- 5500 psi. Offset BHT data indicates a static BHT of +/- 140 F.

No H2S is anticipated in this area.

8. Other Information

Auxiliary equipment: See attached Exhibits "C-1", "C-2",
"C-3" - BOP diagrams.

9. Anticipated Starting Dates

Spud Date: JULY 1, 1991

Drilling Days: 50

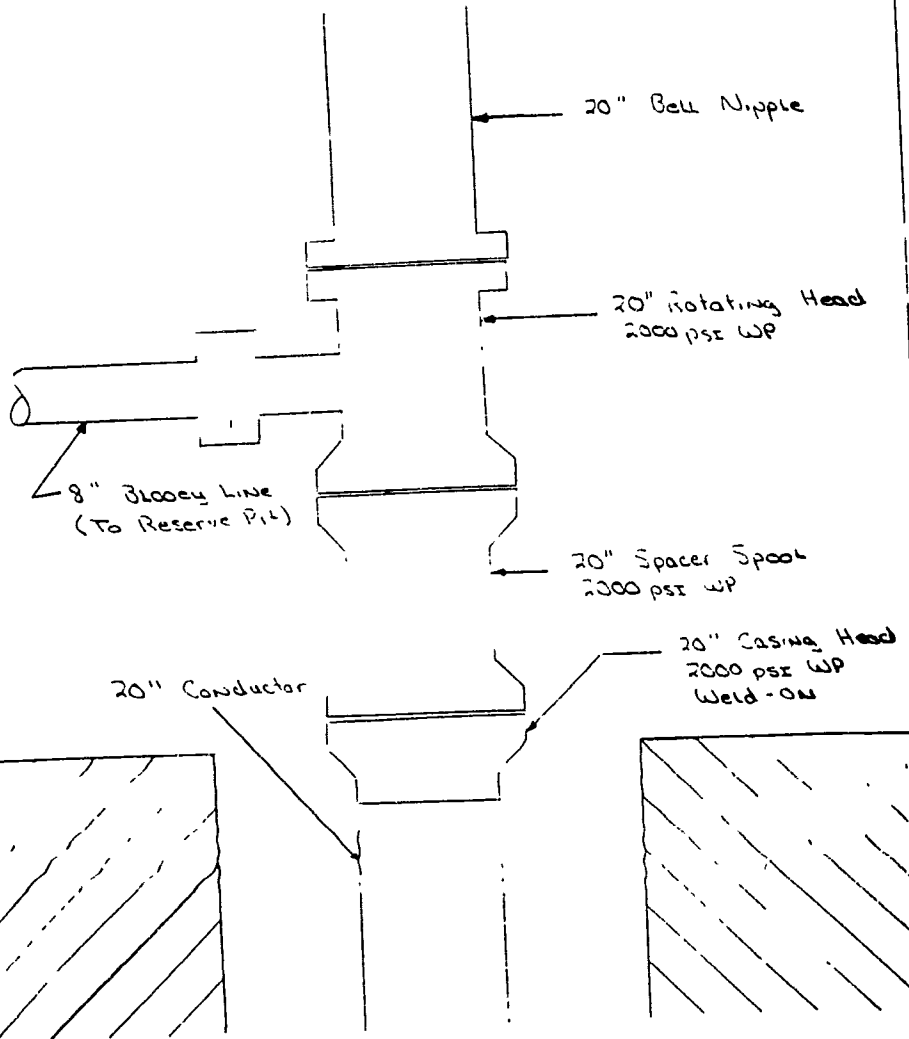
1 week to move drilling rig off and completion rig on.

14-21 days of initial completion work.

7-14 days to install production facilities.

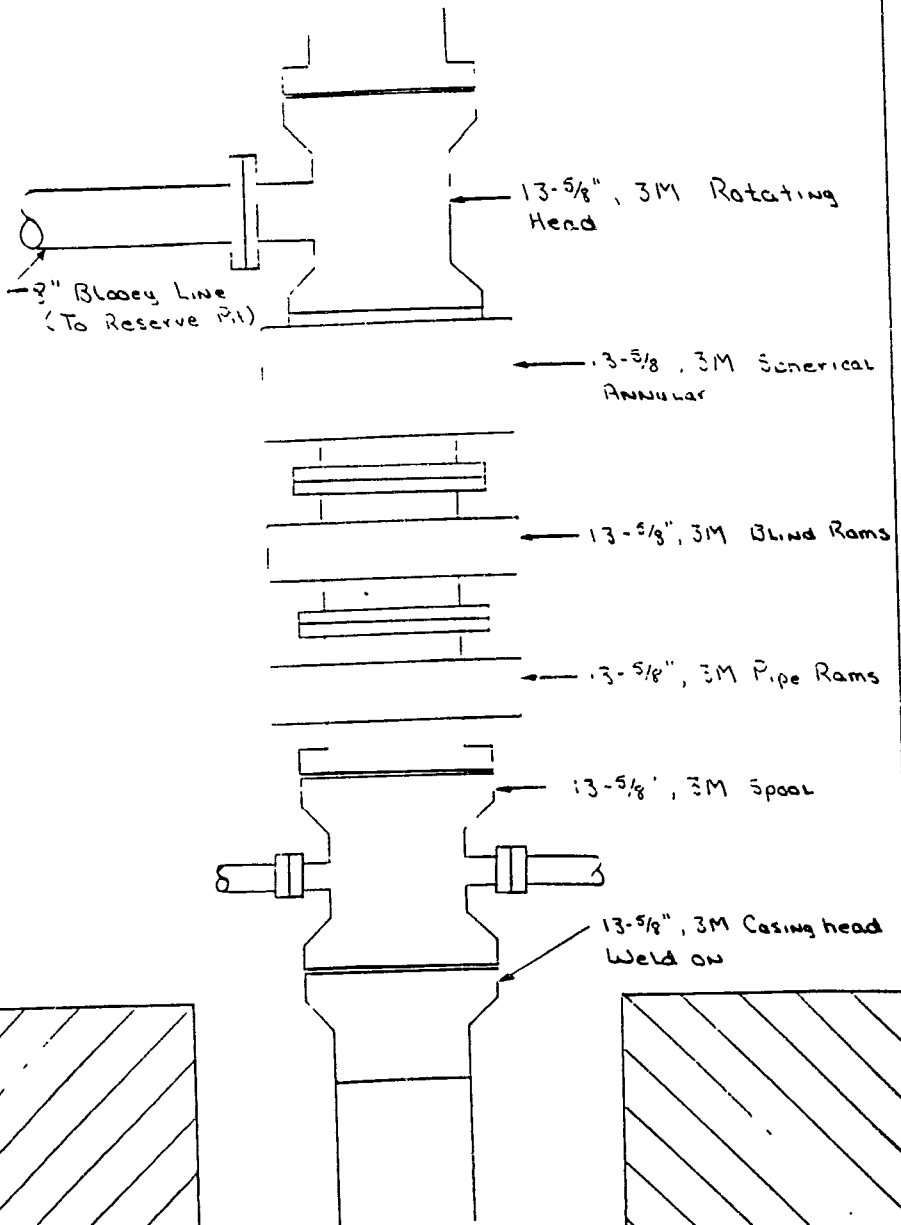
Surface Diverter System

Exhibit "C-1"



Scale: NTS

12 1/4" Hole Diverter System
Exhibit "C-2"
Pg. 1 of 2



Scale: NTS

RIP 53: Blowout Prevention Equipment Systems

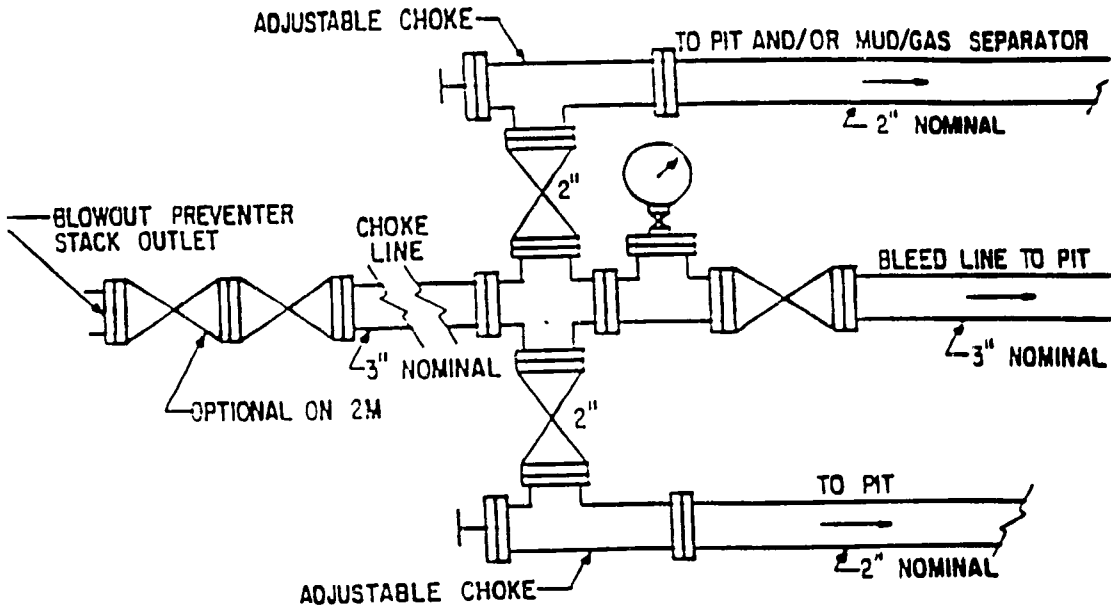
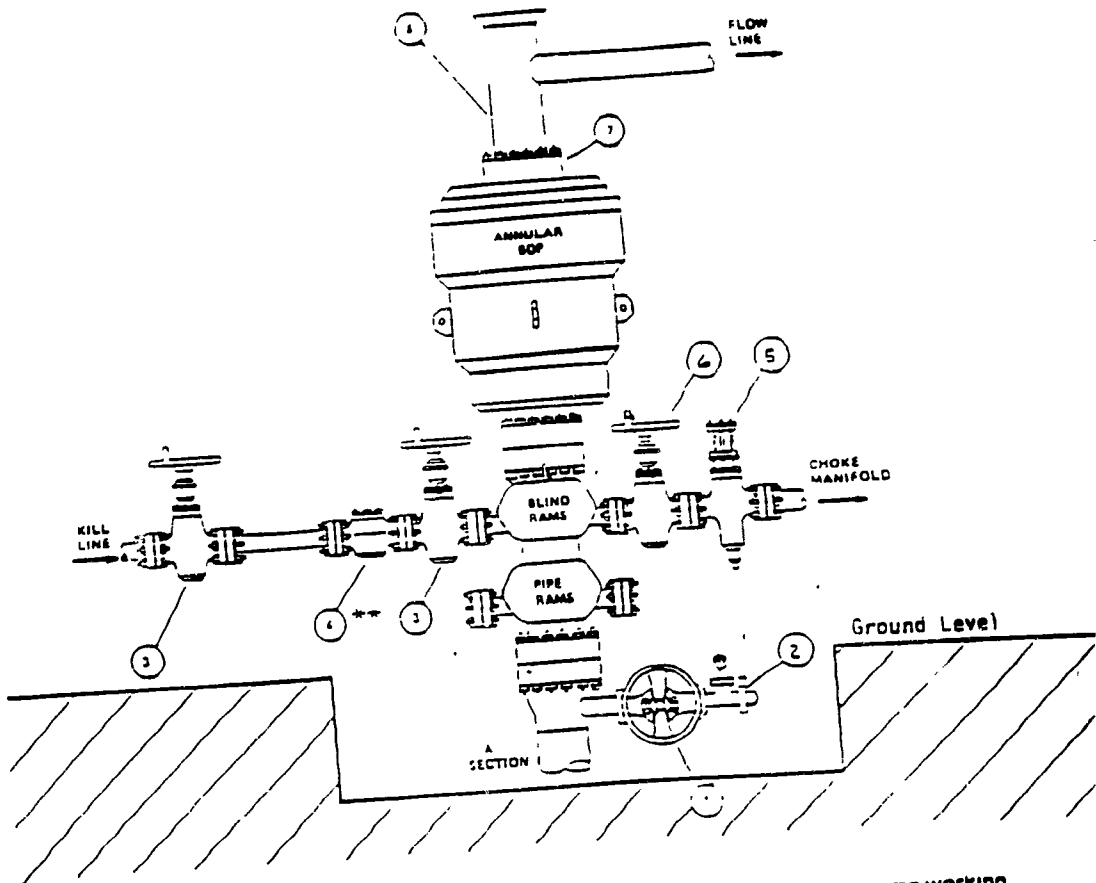


FIG. 3.A.1

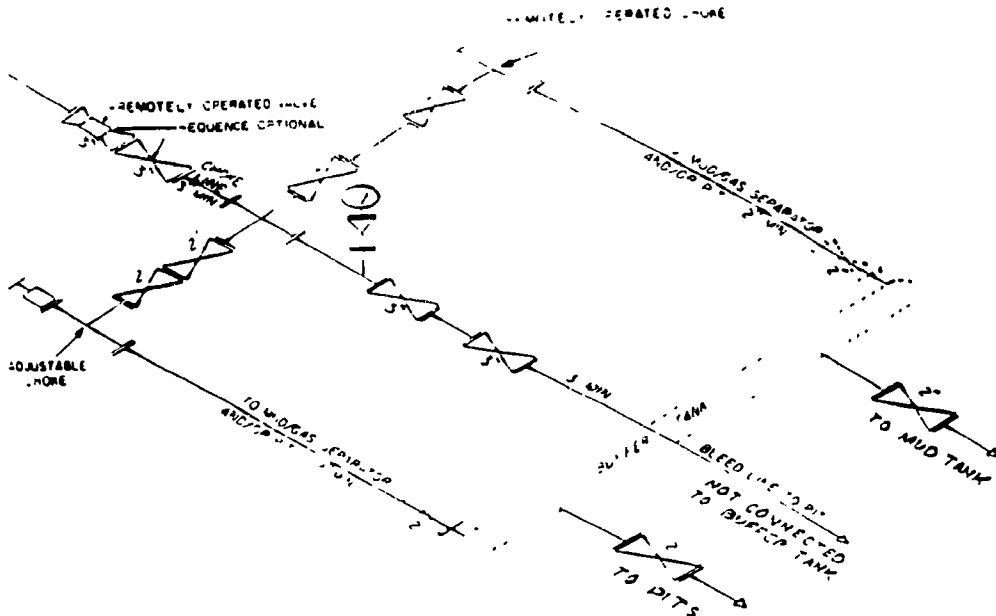
**TYPICAL CHOKE MANIFOLD ASSEMBLY
FOR 2M AND 3M RATED WORKING
PRESSURE SERVICE — SURFACE INSTALLATION**

CONFIDENTIAL

BLOWOUT PREVENTER (TYPICAL)



1. Screwed or flanged plug or gate valves — 2" minimum nominal dia. — same working pressure as "A" section.
2. Tee with tapped bulplug, needle valve, and pressure gauge.
3. Flanged plug or gate valve — 2" minimum nominal dia. — same working pressure as BOP stack.
4. Flanged flapper type check valve — 2" minimum nominal dia. — same working pressure as BOP stack.
5. Flanged hydraulically controlled gate valve — 3" minimum nominal dia. — same working pressure as BOP stack.
6. Flanged plug or gate valve — 3" minimum nominal dia. — same working pressure as BOP stack.
7. Top of annular preventer must be equipped with an API flange ring gasket. All flange studs must be in place or holes filled in with screw type plugs.
8. The I.D. of the bell nipple must not be less than the minimum I.D. of the BOP stack.




5M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of maintaining the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, or 15M drawings, it would also be applicable to those situations.

(FR Doc. 88-28738 Filed 11-17-88; 8:48 am)
BILLING CODE 4110-04-0

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)
3. APPROXIMATE DATE PROJECT WILL START:
July 1, 1991
4. AREAWIDE CLEARING HOUSE(S) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Southeastern Utah Association of Governments
5. TYPE OF ACTION: ☐ Lease ☒ Permit ☐ License ☐ Land Acquisition
☐ Land Sale ☐ Land Exchange ☐ Other _____
6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill
7. DESCRIPTION:
Meridian Oil Inc. proposes to drill the Mineral Canyon Federal #33-4H well (wildcat) on federal lease U-68232, Grand County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S Bureau of Land Management is the primary administrative agency in this action and must issue approval before operations commence.
8. LAND AFFECTED (site location map required) (indicate county) {
NW/4, SE/4, Section 4, Township 26 South, Range 19 East, Grand County, Utah
9. HAS THE LOCAL GOVERNMENT(S) BEEN CONTACTED?
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
See Attachment
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
12. FOR FURTHER INFORMATION, CONTACT:
Frank R. Matthews
PHONE: 538-5340
13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL

DATE: 6-27-91 Petroleum Engineer

OPERATOR Indian Oil Co. N-7030 DATE 7-10-91
WELL NAME Manuel Canyon #33-4H
SEC NWSE 4 T NW3 R 19E COUNTY Grand

43-019-31308
API NUMBER

tidal (1)
TYPE OF LEASE

CHECK OFF:



PLAT



BOND



NEAREST
WELL



LEASE



FIELD
SLAM



POTASH OR
OIL SHALE

PROCESSING COMMENTS:

No other well within 1/4 of same township - Range
Water Permit

Potash area

ROCC 6-17-91

Exemption location requested 7-19-91, rec'd 7/23/91

APPROVAL LETTER:

SPACING:



R615-2-3

N/A
UNIT



R515-3-2



N/A
CAUSE NO. & DATE



R615-3-3

STIPULATIONS:

1- Potash

water permit needed

MERIDIAN OIL

July 19, 1991

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JUL 23 1991

DIVISION OF
OIL GAS & MINING

State of Utah
Natural Resources - Oil, Gas and Mining
355 West North Temple, 3 Triad Center
Salt Lake City, UT 84180-1203

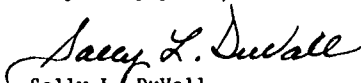
RE: Request for Exception Location
33-4H Mineral Canyon Federal
Sec. 4-T26S-R19E
Grand County, UT

Gentlemen:

The Application for Permit to Drill the subject well is currently pending approval with your office. This well is located outside the limits established by the Oil and Gas Conservation General Rules for location of wells due to geologic reasons related to the orientation of the subsurface fractures that must be penetrated by the horizontal wellbore. Therefore, Meridian Oil respectfully requests that the subject application be approved as an exception location.

If you have any questions, please feel free to call me at (303)930-9393.

Very truly yours,



Sally L. DuVall
Regulatory Compliance Representative

SLD/st



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Timothy H. Provan
Division Director

1596 West North Temple
Salt Lake City, Utah 84116-3195
801 538 4700
801 538 4709 Fax

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AUG 12 1991

DIVISION OF
OIL GAS & MINING

August 5, 1991

Dr. Dianne Nielson, Director
Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

U-68232
Meridian 33-4 H
4-265-19E

Dear Dianne:

I am responding to a drilling permit request on federal leases U-58070 (RDCC item UT910711-030), U-47858 (RDCC item UT910711-020) and U-68232 (RDCC item UT910708-010). The Division of Wildlife Resources has some specific concerns with these projects and their potential impacts to wildlife and wildlife habitat.

Impacts will be associated with short and long-term activities generated by the company. Although the activities associated with just the wildcat well will most likely be for only 30 days, long-term impacts associated with increased access, increased road densities and petroleum products associated with these activities can result in long-term impacts. The species that could potentially be impacted include mule deer, bighorn sheep, reptilian species and birds, which include waterfowl, passerine birds and a variety of raptors.

The waste pits associated with the drilling operation may create a hazard for birds. Waste pits appear as inviting water holes and the petroleum products they contain are fatal for the birds. These pits should be covered by netting to prevent birds from becoming trapped. Causing the death of waterfowl or passerine birds would be a violation of the Migratory Bird Treaty Act. A peregrine falcon eyrie is located just off Dead Horse Point and we believe peregrines, golden eagles and prairie falcons are nesting and foraging in Labyrinth, Hell Roaring and Spring canyons. These birds likely use the project site areas to hunt. White-throated swift, mourning doves, western meadowlarks and other passerine birds are the peregrines' primary prey. Impacts that would reduce these populations will have an effect on the peregrines in this area. Prairie falcons will also prey on these birds as well as small mammals. Another impact to bird populations occurs when eggs are contaminated by petroleum products. A small amount of petroleum on an egg will cause the death of an embryo.

There are a variety of raptor species that may inhabit these sites. Besides the previously discussed impacts to peregrines, their

Dr. Dianne Nielson, Director
August 5, 1991
Page 2

habitat and their prey base, impacts to ground nesting raptors should be considered. The time period of critical concern includes April to the end of July. Site specific surveys should be conducted to determine the presence or absence of ground nesting raptors. If a nest is observed, the nest should be monitored to determine if it is active. The previous date guidelines may be modified depending on the presence or absence of nests and nest activities. These recommendations should also be considered when seismic surveys are conducted for these specific well sites.

Another point of concern is the source of water for these wells. If water is obtained by developing springs or depleting available surface water in the project vicinity, then this will impact the local wildlife species. If water is obtained from the Colorado River, the impacts to threatened and endangered Colorado River species must be considered.


Bighorn sheep use these mesa tops as migratory routes during the fall. These mesa top well locations and their associated facilities may create a disruption for the travel corridor. More information will be needed to evaluate the impact to bighorn sheep travel. We have suggested a one-half mile buffer zone from the rim as a means of mitigating potential impacts to the sheep.

Increasing oil and gas development in southeast Utah continues to concern us. Wildlife impacts associated with these activities can be extremely damaging to many species. Of primary concern are the cumulative impacts these activities will have on wildlife habitat and wildlife directly. As this field is developed, cumulative impacts will become more acute.

We appreciate the opportunity to provide comments. Your personnel should direct any response you have to our concerns to:

Ken Phippen, Habitat Manager
Southeastern Region
455 W. Railroad Avenue
Price, UT 84501
Phone: 637-3310

Sincerely,


Timothy H. Provan
Director

CONFIDENTIAL

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5 LEASE DESIGNATION AND SERIAL NO. UT-66923 111222
b TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6 IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
2 NAME OF OPERATOR Meridian Oil Inc.		7 UNIT AGREEMENT NAME N/A
3 ADDRESS OF OPERATOR 5613 DTC Parkway, Englewood, CO 80111		8 FARM OR LEASE NAME Mineral Canyon Federal
4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements*) At surface 1400' FSL and 1575' FIL		9 WELL NO 33-4H
At proposed prod. zone See attached Plat		10 FIELD AND POOL OR WILDCAT Wildcat
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approx 30 miles southwest of Crescent Junction, Utah		11. SEC. T. R. M. OR BLM. AND SURVEY OF AREA Sec. 4-T26S-R:9E
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest 4rig. unit line, if any)	16. NO. OF ACRES IN LEASE 2070	17. NO. OF ACRES ASSIGNED TO THIS WELL 320
13. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLYING FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH + 8000'	20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5752.6' GL	22. APPROX DATE WORK WILL START* 7-1-91	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	54.5#	6700'	550 sx Poz Mix and Cl. "G"
12-1/4"	9-5/8"	40#	4900'	550 sx foam: 700 sx Cl. "H"
8-3/4"	5-1/2"	17#, 20#, 23#	9850'	1100 sx "G"

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program if any.

SIGNED Ruby L. Duval TITLE Regulatory Compliance Representative DATE 5-16-91

(This space for Federal or State office use)

PERMIT NO. /S/ WILLIAM C. STRINGER APPROVAL DATE NOV 27 1991
APPROVED BY Assistant District Manager TITLE for Minerals DATE NOV 27 1991

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A

Dated 1/1/80

CONDITIONS OF APPROVAL ATTACHED

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations.



4 A KOP

MD = 6990'

TVD = 6990'

1400' FSL

1575' FEL

4. B: Cane
Creek
"B" Entry

MD = 7850'

TVD = 7492'

2000' FSL

1575' FEL

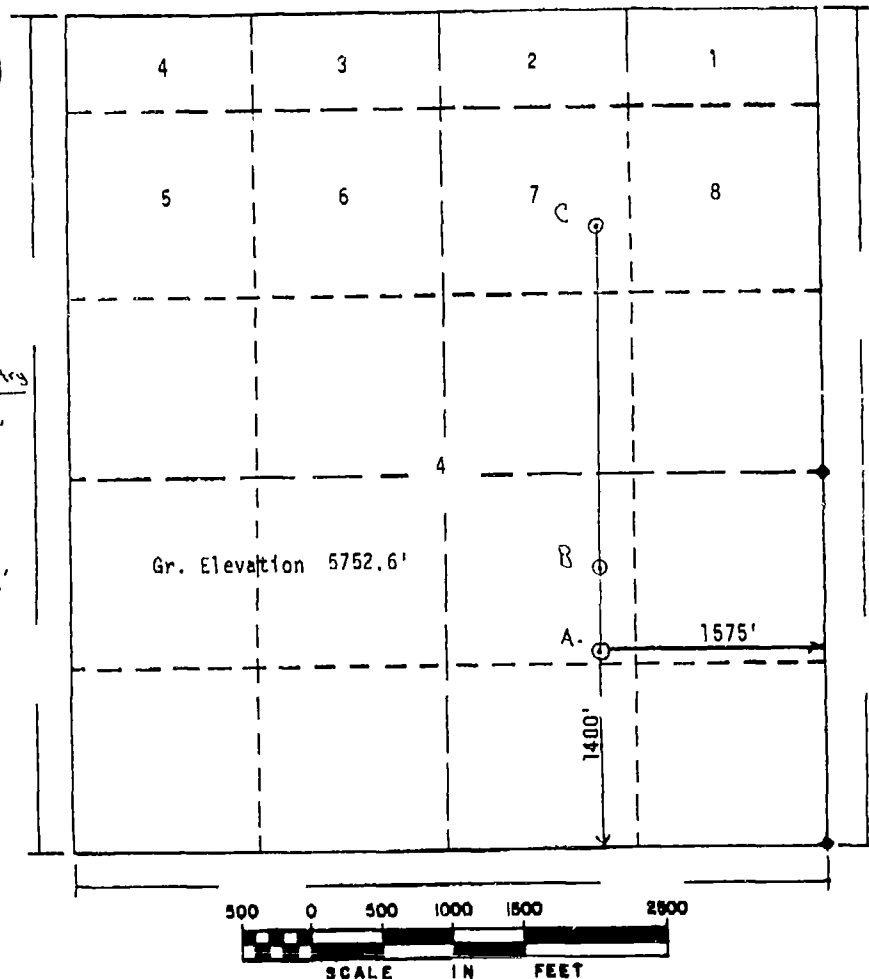
4 C: TD

MD = 10,350'

TVD = 7490'

1490' FSL

1575' FEL



Powers Elevation Co., Inc. of Denver, Colorado has in accordance
 with a request from Sally DuVal for Meridian Oil Inc.
 determined the location of 33-4 H Mineral Canyon Federal
 to be 1400' fsl, 1575' fel Section 4, Township 26S
 Range 19E of the Salt Lake Meridian,
 Grand County, Utah



Date:

May 16, 1991

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of
 33-4 H Mineral Canyon Federal

Licensed Land Surveyor No. 8894
 State of New Mexico

CONFIDENTIAL

Self-Certification of Operator

Be advised that Meridian Oil Inc. is considered to be the operator of Well No. 33-4H Mineral Canyon Federal, NWSE, Sec. 4, T. 26 S., R. 19 E., Lease UT-66025, Grand County, Utah, and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond Coverage for this well is provided by Bond No UT-0414. (Principal St. Paul Fire and Marine Life Insurance, St. Paul, Minnesota) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

By: Sally L. DuVall
Sally L. DuVall
Regulatory Compliance Rep.
MERIDIAN OIL INC.
5613 DTC Parkway
Englewood, CO 80111

Lease No. UT-66025

Legal Description:

Township 26 South, Range 19 East, Salt Lake Meridian

Section 3: All

Section 4: All

Section 9: All

containing 2070 acres, more or less

Meridian Oil Inc
Well No. 33-4H
NWSE Sec 4, T 26 S, R 19 E
Grand County, Utah
Lease U-68232

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

Be advised that Meridian Oil Inc, is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands

Bond coverage for this well is provided by MT 0719 (Principal - Burlington Resources, Inc, Meridian Oil Inc - Subsidiary) via surety consent as provided for in 43 CFR 3104.2

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met

A DRILLING PROGRAM

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1 and Onshore Oil and Gas Order No. 2 and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to the field representative to insure compliance

Surface casing shall have centralizer on each of the bottom three joints.

Surface casing shall be set 50 feet into the Chinle Formation regardless of the depth the Chinle is encountered

Intermediate casing will be set 50 ft into the second clastic zone (base of the Ismay Equivalent) within the Paradox Formation regardless of the depth this zone is encountered.

Prior to the use of oil base mud, the operator shall disclose to the Moab District Office, BLM components used in the mud system.

The BLM shall be kept apprised of all fluids entering or leaving the pit, through either weekly drilling reports or a final status report, submitted with the completion report. Either of which shall be submitted prior to reclamation of the pits.

Daily drilling and completion progress reports shall be submitted to the District office on a weekly basis.

No trivalent or hexavalent chromate additives shall be used in the mud system in order to protect usable quality aquifers.

To determine cement top and bond quality, cement bond log (CBL) or cement evaluation tool (CET) shall run after the 5 1/2" production casing is run and cemented in place.

As proposed under item 6(d) within the drilling plan, the horizontal portion of the well is to be drilled from a KOP at ± 6990 in a direction of N 0.0 E. This direction shall not deviate ± 10 degrees without prior approval from the authorized officer.

ESP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

CONDITIONS OF APPROVAL

EA Log No. UT-068-91-085 Lease NO. UT-66025
Project APD for Exploratory Oil Well 33-4H Mineral Canyon Federal
Applicant Meridian Oil Inc. Address Englewood, Colorado
Project Location T.26 S., R.19 E., Sec.4, NWSE, SLM County Grand
BLM Office Grand Resource Area Phone No. (801) 259-8193

CONSTRUCTION

1. The operator/contractor will contact the Grand Resource Area Office in Moab, Utah (801-259-8193) 48 hours prior to beginning work on public lands.
2. The dirt contractor will be furnished an approved copy of the surface use plan and BLM stipulations prior to starting any work.
3. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during the construction, the operator will immediately stop work that might further disturb such materials, and contact the Grand Resource Area. The Grand Resource Area will provide technical and procedural guidelines for the conduct of mitigation.
4. Recreationists will be informed of the project activity and signs will be placed at corners along the access road to minimize safety problems.
5. Speed of commercial vehicles associated with the project will be limited to 40 miles/hour to increase compatibility with recreational uses of the road.
6. The number of commercial vehicles will be minimized as much as possible.
7. Surface disturbance and vehicular travel will be limited to the approved location and access route. Any additional area needed will require BLM approval in advance of use.
8. Access (ingress and egress) will be controlled by appropriate signs as needed along the road.

RECEIVED

DEC 02 1991

DIVISION OF
OIL GAS & MINING

9. The access road and well pad will be sprinkled with water as needed to control dust.
10. Neither construction material nor equipment will be stored on the access road or location without prior BLM approval.

DRILLING

1. The preferred drilling medium for the first 4900 feet is air mist. If technically impossible, air drilling will be permitted with prior BLM approval.
2. A dewatering unit will be used, if available, and the reserve pit will be reduced in size.
3. In order to reduce fugitive dust, the operator/contractor will be required to periodically water down the access road and drill pad.
4. If wind erosion becomes a problem, topsoil will be stabilized by use of mulches, surface soil sealers, and/or erosion control fabric as determined by the BLM.
5. Gravel and dirt roads will be maintained on a regular basis to decrease erosion.
6. Rig lights will be shielded to deflect lighting from the night sky.

POST-DRILLING

1. Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the trash pit/cage. Non-burnable debris will be hauled to a local dump site.
2. After drilling rig move-off, flags will be placed over the reserve pit to prevent the use of reserve pit water by avian wildlife species.
3. The operator/contractor will contact the Grand Resource Area BLM office in Moab, Utah (801-259-8193) 48 hours prior to starting rehabilitation work that involves earthmoving equipment and completion of restoration measures.
4. All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area.
5. The stockpiled topsoil will be evenly distributed over the disturbed area.
6. All disturbed areas will be scarified with the contour to a depth of 4 inches. Do not smooth pads out, leave a roughened surface.

7. Seed will be drilled at a time to be specified by the BLM with the seed mixture specified by the BLM.
8. The re-seeded location will be fenced for two years to allow for successful rehabilitation.

B. SURFACE USE PLAN

1. All site security guidelines identified in 43 CFR 3162.7-5 and ONSHORE OIL AND GAS ORDER NO. 3: SITE SECURITY will be adhered to.
 2. Gas measurement will be conducted in accordance with the ONSHORE ORDER NO. 5: GAS MEASUREMENT AND 43 CFR 3162.7-3.
 3. Oil measurement will be conducted in accordance with ONSHORE OIL AND GAS ORDER NO. 4: OIL MEASUREMENT as of the effective date of August 23, 1989 and 43 CFR 3162.7-2.
 4. All loading lines and valves will be placed inside the berm surrounding the tank battery. If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the largest tank in the battery.
 5. All permanent (on-site for six (60) months or longer) structures constructed or installed (including oil well pump jacks) shall be painted a flat, nonreflective, earth ton color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities shall be painted within (6) six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors shall be coordinated with the Grand Resource Area office prior to initiating painting.
 6. As stated under the eight point drilling program in item No. 5, an oil base mud (diesel) will be utilized to drill the hole from 4500-7367'. This drilling fluid shall be contained in the mud storage facilities during all phase of drilling operations. Following drilling operations the fluid shall be properly disposed of or efforts shall be made to recycle the mud for future use.
- As soon as the reserve pit has dried or within 18 months of completion of drilling whichever is least, all areas not needed for production will be rehabilitated.
7. If well is a producer, cattle guards will be installed at fence crossing on access road.
- Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed will be approved by the Area Manager in advance.

The access road will be rehabilitated or brought to Resource (Class III) Road Standards within sixty (60) days of dismantling of the drilling rig. If this time frame cannot be met, the Area Manager will be notified so that temporary drainage control can be installed along the access road.

8. All off-lease storage, off-lease measurement, or comminuling on-lease of off-lease shall have prior written approval from the Assistant District Manager.

9. Pipeline construction activity is not authorized under this permit.

10. Produced waste water will be confined to an unlined pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the Assistant District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

11. There will be no deviation from the proposed drilling and/or workover program without prior approval from the Assistant District Manager. Safe drilling and operating practices must be observed. All wells whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.6.

12. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

13. The dirt contractor will be provided with an approved copy of the surface use plan of operations.

14. This permit will be valid for a period of one (1) year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

15. Copies of all water analysis required by the State of Utah in relation to surface discharge of produced water will be submitted to the Moab District Office, Bureau of Land Management.

16. Plans will be formulated for long term monitoring of aquifers and springs in the area of proposed development prior to approval of further Applications for Permit to Drill.

17. A cultural resource clearance (will/will not) be required before any construction begins. If any cultural resources are found during construction, all work will stop and the Area Manager will be notified.

18. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five (5) working days, the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and,
- a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will then be allowed to resume construction.

19. If at any time the facilities located on public land authorized by the terms of the lease are no longer included in the lease (due to contraction in the unit or other lease or unit boundary change) the BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental, or other financial obligation determined by the authorized officer (AO).

CONDITIONS OF APPROVAL
RESERVE PIT CONSTRUCTION AND CLOSURE
Meridian Mineral Canyon Fed. 33-4H

In addition to procedures identified in the AFD submittal, the following requirements will be followed in construction and reclaiming the reserve pit:

- 1 - The pit liner will be installed in such a manner to assure it will not be punctured during installation or drilling operations.
- 2 - Upon completion of drilling operations the reserve pit will be de-watered. This waste water will be disposed of off-site at an approved disposal facility, or it may be re-injected with the appropriate Underground Injection Control permit from the State Division of Oil, Gas and Mining with concurrent approval by the Bureau of Land Management Moab District office.
- 3 - The remaining reserve pit solids will be tested prior to stabilization. At least three samples will be taken from different areas of the pit. These samples will be analyzed by an independent laboratory for salt properties (electrical conductivity, sodium adsorption ratio and exchangeable sodium percentage), heavy metal content and oil and grease content. The results of these tests will be provided to the Moab District office within 30 days of analysis.
- 4 - The reserve pit contents will then be solidified with proper mixture of fly ash and kiln dust to stabilize the salt adhered to the cuttings. Quantities of solidifying agent will be sufficient to assure that the physical properties of the stabilized pit contents are similar to the physical properties of the native substrate.
- 5 - The solidified contents will then be sampled and tested for leachability of salts and heavy metals. There will be a minimum of 5 samples taken from the solidified remains from top to bottom. The samples will come from each corner section of the pit and from the middle. These samples will also be analyzed by an independent laboratory. The results of this testing will be provided to the Moab District office within 30 days of analysis.
- 6 - The remaining liner material will then be placed over the edges of the solidified pit.
- 7 - The solidified pit contents will then be covered with a minimum of one foot of native substrate. If required, a thicker application may be allowed to bring the top of this cap up to match the grade of the well pad. The pit will then be allowed to set up for a minimum of 3 days prior to additional work on the pit involving the bentonite cap.

- 8 - A bentonite cap will then be applied to the top of the pit. The bentonite will be a commercial grade and will be mixed with the native subsoils at the rate of 2-4 pounds per square foot of coverage. The cap will be at least 1 foot thick in the middle and grade to no less than 6 inches on the sides. The bentonite/subsoil mixture will be disc'd in to assure maximum effectiveness of the impervious cap. The cap will be crowned at the middle to allow proper drainage. The cap will extend at least 10 feet beyond the original pit boundaries to allow drainage away from the pit and prevent leaching of salts and heavy metals.
- 9 - The bentonite cap will then be covered with a minimum of 2 feet of native subsoils and topsoils in the final recontouring of the location.
- 10 - The Moab District Office will be kept appraised of timetables for all operations described above so that operations can be witnessed.

C ANTICIPATED STARTING DATES AND NOTIFICATIONS OF OPERATIONS

Required verbal notifications are summarized in Table 1, attached. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District office within twenty-four (24) hours after spudding (regardless of whether spud was made with a dry hole driller or big rig). If the spudding occurs on a weekend or holiday, the written report will be submitted on the following work day.

Immediate Reports: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTI-3A.

Should the well be successfully completed for production, the Assistant District Manager, Minerals Division will be notified when the well is placed in producing status. Such notification will be sent by telegram or other written communication, not later than five (5) business days following the date on which the well is placed on production.

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed in accordance with 43 CFR 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gas) will be submitted when requested by the Assistant District Manager.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Assistant District Manager, Minerals Division within thirty (30) days following completion or the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative or the appropriate surface managing agency.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6.

The top of the marker will be closed or capped.

The following minimum information will be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch:

"Fed" or "Ind", as applicable "Well number, location by
1/4 1/4 section, township and range" "Lease number"

NOTIFICATIONS

Notify Elmer Duncan of the Grand Resource Area, at
(801) 259-8193 for the following:

- 2 days prior to commencement of dirt work, construction or reclamation;
- 1 day prior to spudding;
- 50 feet prior to reaching intermediate casing depth;
- 3 hours prior to testing BOP's;
- 12 hours prior to reaching kickoff point depth;

If the person at the above number cannot be reached, then notify Fred Oneyear in the Moab District Office at (801) 259-6111 or at home (801) 259-5937 (If unsuccessful, then notify one of the following people listed below).

Notify the Moab District Office, Branch of Fluid Minerals at (801) 259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the Assistant District Manager, Minerals Division.
In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed.

Dale Manchester, Petroleum Engineer	Office Phone: (801) 259-6111
	Home Phone: (801) 259-6239
Eric Jones, Petroleum Engineer	Office Phone: (801) 259-6111
	Home Phone: (801) 259-2214

If unable to reach the above individuals including weekends, holidays, or after hours please call the following:

Lynn Jackson, Chief, Branch of Fluid Minerals	Office Phone: (801) 259-6111
	Home Phone: (801) 259-7990

24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS



Norman H. Bangert

Attorney General

Dev C. Hansen

Assistant Attorney General

Deanne R. Nelson, Ph.D.

Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple

3 Trade Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

December 4, 1991

Meridian Oil Inc.
5613 DTC Parkway
Englewood, Colorado 80111

Gentlemen:

Re: Mineral Canyon Federal 33-4H Well, 1400 feet from the south line, 1575 feet from the east line, NW 1/4 SE 1/4, Section 4, Township 26 South, Range 19 East, Grand County, Utah

Pursuant to Utah Admin. R. 615-3-3 and Utah Admin. R. 615-3-4, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 615-1 et seq., Oil and Gas General Rules.
2. Submittal to the Division of evidence providing assurance of an adequate and approved supply of water as required by Utah Code Ann. § 73-3, Appropriations, prior to commencing drilling operations.
3. Notification within 24 hours after drilling operations commence.
4. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
5. Submittal of the Report of Water Encountered During Drilling, Form 7.

Page 2

Meridian Oil Inc.

Mineral Canyon Federal 33-4H Well

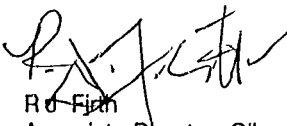
December 4, 1991

6. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R J Firth, Associate Director, (Home) (801)571-6068.
7. Compliance with the requirements of Utah Admin R 615-3-20, Gas Flaring or Venting, if the well is completed for production.

Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site should be submitted to the local health department. These drilling operations and any subsequent well operations should be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Department of Environmental Quality, Division of Drinking Water/Sanitation, telephone (801)538-6159.

This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-019-31328.

Sincerely,

A handwritten signature in black ink, appearing to read "R. J. Firth", is written over a printed name.

R J Firth

Associate Director, Oil and Gas

ldc

Enclosures

cc: Bureau of Land Management

J.L. Thompson

WOI1

4,511 1328

Moab District
P. O. Box 970
Moab, Utah 84532

3160
(U-68232)
(UT-065)

CERTIFIED MAIL-Return Receipt Requested
Certified # P375 791 576

JUL 21 1993

Mr. Tony Gatti
Meridian Oil Inc.
5613 D. T. C. Parkway
Englewood, Colorado 80111

Re: Denial of APD Extension and
Rescission of APD
Mineral Canyon 33-4H Well
Lease U-68232
Section 4, T. 26 S., R. 19 E.
Grand County, Utah

Dear Mr. Gatti,

We have reviewed your request for extension of the application for permit to drill (APD) for the Mineral Canyon 33-4H Well. Considering the length of time this APD has already been valid, and considering recommendations from our Grand Resource Area Office, we hereby deny your request.

Your APD is deemed to have expired and become void at the end of its last extension term, March 27, 1993. Within 30 days of receipt of this letter, you shall contact Rich McClure of the Grand Resource Area Office at (801) 259-8193 to discuss reclamation requirements.

As this location has already been counted in the ten well threshold allowable under the current Resource Management Plan (RMP), it can be drilled prior to the completion of an Environmental Impact Statement (EIS). Should you still wish to drill this location, a new APD must be submitted.

If you feel this decision is in error, you may request a State Director Review of this action in accordance with 43 CFR § 3165.3.

6/27/93

-2-

Such a request, including all supporting documentation, must be filed in writing, within twenty working days of the date of receipt of this correspondence. The request should be submitted to:

State Director
Bureau of Land Management
Consolidated Financial Center
P. O. Box 45155
Salt Lake City, Utah 84145-0155

Should you have any questions, please call Eric Jones of this office at (801) 259-6111.

Sincerely,

- /S/ WILLIAM C. STRINGER
Associate District Manager

Enclosure 1st WADJAN 1994, E.L. 1994
APD

cc: UT-068, Grand Resource Area, BLM (wo/Enclosure)

EJones.jc:7/19/93 WP A:APDRESCM

PM

Form 150-6
(December 1989)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other **UNDRILLED LOCATION**

2. Name of Operator

EXXON CORPORATION ATTN: REGULATORY AFFAIRS

3. Address and Telephone No.

P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7875

4. Location of Well (Footage Sec. T., R., M. or Survey Description)

1400' FSL & 1575' FEL OF SEC 4, T26S, R19E

5. Lease Designation and Serial No.

UT-68232

6. If Indian Allottee or Tribe Name

7. If Unit or Co. Agreement Designation

**MINERAL CANYON FEDERAL
33-4H**

9. API Well No.

UNASSIGNED

10. Field and Pool, or Exploratory Area

HILOCAT

11. County or Part of State

GRAND**UT**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒
- Notice of Intent
-
- ☐
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- ☐
- Abandonment
-
- ☐
- Recompletion
-
- ☐
- Plugging Back
-
- ☐
- Casing Repair
-
- ☐
- Altering Casing
-
- ☒
- Other

- ☐
- Change of Plans
-
- ☐
- New Construction
-
- ☐
- New Routine Fracturing
-
- ☐
- Water Shut Off
-
- ☐
- Conversion to Injection

CHANGE OF OPERATOR

(Note: Report results of multiple completion on Well Completion or
Perforation Report and Log form)13. Describe Proposed or Complete Operations (Clearly state all pertinent details, and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled, give
surface locations and measure and true vertical depths for all markers and zones pertinent to this work.)**EFFECTIVE 8-16-93 EXXON BECAME OPERATOR OF THIS LOCATION/LEASE.
NATION WIDE OIL & GAS BLANKET BOND #511-23-06 (BLM BOND #ES0024)****EXXON INTENDS TO BEGIN RECLAMATION OF THIS LOCATION AS SOON AS POSSIBLE**RECEIVED
MOAB DISTRICT OFFICE
93 AUG 24 AM 9:01
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

14. I hereby certify that the foregoing is true and correct

Signed Stephen Johnson Title **Regulatory Specialist**Date **08/17/93**

(This space for Federal or State office use)

Approved by William C. ThompsonTitle **Associate District Manager**Date **8/25/93**

Conditions of approval

CONDITIONS OF APPROVAL ATTACHEDTitle 18 U.S.C. Section 1701 makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations
or to any matter within its jurisdiction.

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
Use "APPLICATION FOR PERMIT--" for such proposals

5. Lease Designation and Serial No.

UT-68232

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
**MINERAL CANYON FEDERAL
33-4H**

9. API Well No. **43-079-31328**
UNASSIGNED

10. Field and Pool or Exploratory Area
HILDCAT

11. County or Parish, State

GRAND

UT

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other **UNDRILLED LOCATION**

2. Name of Operator:
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

3. Address and Telephone No.
P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7875

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1400' FSL & 1575' FEL OF SEC 4, T26S, R19E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other

- ☐ Change of Plans
☐ New Construction
☐ Non Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection

CHANGE OF OPERATOR

(Note: Report results of multiple completion on Well Completion or
Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

**EFFECTIVE 8-16-93 EXXON BECAME OPERATOR OF THIS LOCATION/LEASE.
NATION WIDE OIL & GAS BLANKET BOND #511-23-06 (BLM BOND #ES0024)**

EXXON INTENDS TO BEGIN RECLAMATION OF THIS LOCATION AS SOON AS POSSIBLE

RECEIVED

AUG 23 1993

DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed *Stephen Johnson*

**Stephen Johnson
Regulatory Specialist**

Date **08/17/93**

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any: _____

Title _____ Date _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Meridian Oil Inc.

3. Address and Telephone No.

5613 DTC Parkway, Englewood, CO 80111 (303) 930-9407

4. Location of Well (Footage Sec. T R M or Survey Description)

1400' FSL and 1575' FEL

Sec. 4-T26S-R19E

5. Lease Designation and Serial No.

UP 68232

6. If Indian Allottee or Tribe Name

N/A

7. If Unit or CA Agreement Designation

N/A

8. Well Name and No.

33-4H Mineral Canyon Fed.

9. API Well No.

43-019-31328

10. Field and Pool or Exploratory Area

Wildcat

11. County or Parish State

Grand

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Change of Ownership
☐ Change of Plans
☐ New Construction
☐ Non Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective August 16, 1993, Meridian Oil Inc. sold all of its interest in this well to Exxon Corporation.

RECEIVED

SEP 02 1993

**DIVISION OF
OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Signed Georgina Mitchell

Title Regulatory Assistant

Date 8/30/93

(This space for Federal or State office use)

Approved by _____
Conditions of approval if any _____

Title _____

Date _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1 Type of Well
☐ Oil Well ☐ Gas Well ☒ Other **UNDRILLED LOCATION**

2 Name of Operator
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

3 Address and Telephone No.
P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7875

4 Location of Well (Footage Sec. T R. M. or Survey Description)
1400' FSL & 1575' FEL OF SEC 4, T26S, R19E

5 Lease Designation and Serial No.
UT-68232

6 If Indian, Allottee or Tribe Name

7 If Unit or CA, Agreement Designation

8 Well Name and No.
MINERAL CANYON FEDERAL 33-4H

9 API Well No.
UNASSIGNED

10 Field and Pool, or Exploratory Area
HILDCAT

11 County or Parish, State

GRAND

UT

43-019-31328

12 CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
- ☐ Subsequent Report
- ☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
- ☐ Recompletion
- ☐ Plugging Back
- ☐ Casing Repair
- ☐ Altering Casing
- ☒ Other

- ☐ Change of Plans
- ☐ New Construction
- ☐ Non Routine Fracturing
- ☐ Water Shut-Off
- ☐ Conversion to Injection

CHANGE OF OPERATOR

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13 Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

**EFFECTIVE 8-16-93 EXXON BECAME OPERATOR OF THIS LOCATION/LEASE.
NATION WIDE OIL & GAS BLANKET BOND #511-23-06 (BLM BOND #ES0024)**

EXXON INTENDS TO BEGIN RECLAMATION OF THIS LOCATION AS SOON AS POSSIBLE

RECEIVED

DEC 20 1993

**DIVISION OF
OIL, GAS & MINING**

**RECEIVED
HOB DISTRICT OFFICE
93 AUG 24 AM 9:01
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

14 I hereby certify that the foregoing is true and correct

Signed

Stephen Johnson

Stephen Johnson

Regulatory Specialist

Date **08/17/93**

(This space for Federal or State office use)

Approved by

William C. Hines

Title

Associate District Manager

Date

8/25/93

CONDITION OF APPROVAL ATTACHED

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing

1- DEC 7-SJ
2- DEC 8-FILE
3- VLC
4- RJP
5- PL
6- PL

Attach all documentation received by the division regarding this change
 Initial each listed item when completed. Write N/A if item is not applicable

☒ Change of Operator (well sold)

☐ Designation of Agent

☐ Designation of Operator

☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE 8-16-93)

TO (new operator) EXXON CORPORATION
 (address) PO BOX 1600
MIDLAND, TX 79702
STEPHEN JOHNSON
 phone (915) 688-7875
 account no. N 0420

FROM (former operator) MERIDIAN OIL INC
 (address) 801 CHERRY ST
FORT WORTH, TX 76102
LANETTE JENIKE
 phone (817) 347-2331
 account no. N7230

Well(s) (attach additional page if needed)

Name	<u>MINERALS CYN 33-4H/DRL</u>	API:	<u>43-019-31328</u>	Entity:	<u>99999</u>	Sec	<u>4</u>	Twp	<u>26S</u>	Rng	<u>19E</u>	Lease Type:	<u>UT-6823</u>
Name		API		Entity		Sec	Twp	Rng				Lease Type:	
Name		API		Entity		Sec	Twp	Rng				Lease Type:	
Name		API		Entity		Sec	Twp	Rng				Lease Type:	
Name		API		Entity		Sec	Twp	Rng				Lease Type:	
Name		API		Entity		Sec	Twp	Rng				Lease Type:	
Name		API		Entity		Sec	Twp	Rng				Lease Type:	

OPERATOR CHANGE DOCUMENTATION

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form) (Reg 8-26-93) (Res'd 9-2-93)
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form) (Res'd 8-22-93)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah Is company registered with the state? (yes/no) ____ If yes, show company file number ____
- See 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (12-22-93)
- See 6. Cardex file has been updated for each well listed above (12-22-93)
- See 7. Well file labels have been updated for each well listed above (12-22-93)
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (12-22-93)
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents

04/20/94 D E T A I L W E L L D A T A menu: opt 00
 api num: 4301931328 prod zone: sec twnshp range qr-qr
 entity: 99998 : PA/LA/TA 4 26.0 S 19.0 E NWSE
 well name: MINERALS CANYON FEDERAL 33-4H
 operator: N0420 : EXXON CORPORATION meridian: S
 field: 1 : WILDCAT
 confidential flag: C confidential expires: alt addr flag:
 * * * application to drill, deepen, or plug back * * *
 lease number: UT-68232 lease type: 1 well type: GW
 surface loc: 1400 FSL 1575 FEL unit name:
 prod zone loc: 1400 FSL 1575 FEL depth: 9500 proposed zone: CNCR
 elevation: 5752' GL apd date: 911204 auth code: R615-3-3
 * * completion information * * date recd: la/pa date:
 spud date: compl date: tctal depth:
 producing intervals:
 bottom hole: first prod: well status: TA
 24hr oil: 24hr gas: 24hr water: gas/oil ratio:
 * * well comments: api gravity: DRL
 931222 OPER FR MERIDIAN OIL EFF 8-16-93:

opt: 21 api: 4301931328 zone: date(yy/mm): enty acct:

DTS

EXXON SAYS
 THIS SHD BZ LA
NOT TA

couldn't find
 card
 DTS
 4/21/94

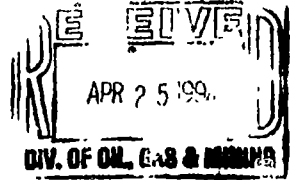
Card found
 4/21/94 CMO

4-20-94

Any questions call
 Steve Johnson
 915-688-7875

Not spudded - changed 3270 back
 to DRL status. Per MKH, Exxon
 claims they've done everything
 needed to LA. Feds say Exxon
 still needs to reclaim location.
 Dohm will not LA at this time.

DTS
 4/21/94



April 22, 1994

Utah Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203
Attn: Debra Eatchel

Re: Coastal Oil & Gas Corp. &
ANR Production Company
Proposed Drillsites located in
Uintah & Duchesne Counties, Utah

Dear Debra,

As per your telephone conversation with Joe Adamski, please be advised that Coastal/ANR requests that the following wells be held in a Confidential - Tight Hole Status. Your cooperation would be appreciated. The wells are as follows:

1. CIGE #180-16-9-21, SE SW Sec. 16, T9S - R21E, Uintah Co., Utah
2. CIGE #182-7-10-21, SE SE Sec. 7, T10S - R21E, Uintah Co., Utah
3. COG #6-18-9-21 GR, SE NW Sec. 18, T9S - R21E, Uintah Co., Utah
4. COG #8-19-9-21 GR, NE NE Sec. 19, T9S - R21E, Uintah Co., Utah
5. COG #10-30-9-21 GR, SW NE Sec. 30, T9S - R21E, Uintah Co., Utah
6. COG #11-22-9-20 GR, SE NE Sec. 22, T9S - R20E, Uintah Co., Utah
7. NBU #214, NW SW Sec. 27, T9S - R21E, Uintah Co., Utah
8. NBU #215, NW NW Sec. 12, T10S - R21E, Uintah Co., Utah
9. NBU #217, NE SW Sec. 28, T9S - R21E, Uintah Co., Utah
10. Ute #1-27B6, NW/4 Sec. 27, T2S - R6W, Duchesne Co., Utah
11. Ute #1-28B6, NE/4 Sec. 28, T2S - R6W, Duchesne Co., Utah
12. Ute #2-28B6, SE/4 Sec. 28, T2S - R6W, Duchesne Co., Utah
13. Ute #2-21B6, NE/4 Sec. 21, T2S - R6W, Duchesne Co., Utah
14. Ute #2-22B6, SE/4 Sec. 22, T2S - R6W, Duchesne Co., Utah
15. Ute #2-33B6, NE/4 Sec. 33, T2S - R6W, Duchesne Co., Utah

Permitco Incorporated
A Petroleum Permitting Company

April 22, 1994
Utah Division of Oil, Gas & Mining
Page 2

If you should have any questions, please contact Joe Adamski at 303/573-4476.

Sincerely,

PERMITCO INC.



Lisa L. Smith
Consultant for:
Coastal Oil & Gas Corp.
ANR Production Co.

cc: Joe Adamski

